

ABSTRACT:

The present invention comprises a system and method for pseudo-tunneling voice communications over a telecommunications network to preserve the quality of the voice call and reduce degradation due to tandemming loss. The pseudo-tunneling of the present invention comprises processing and routing voice packets as data packets. A voice packet is pseudo-tunneled by setting a pseudo-tunneling flag in the voice packet. The pseudo-tunneling flag provides an indication to network devices that the voice packet should be processed and routed like a data packets.

Alternatively, one or more voice packets can be encapsulated in a routing packet for routing across a packet switched data network. The routing packet is pseudo-tunneled by setting a pseudo-tunneling flag in the header of the routing packet.

Pseudo-tunneled vocoder frames are not converted into PCM or any other decompressed waveform representation of the voice signal, thereby avoiding tandemming loss and preserving bandwidth.